

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P830218

Luminaire Tested: **OHBL-30HE-NL-UNV-L850-CD**

Issue Date: 5/3/2024



**Test Information**

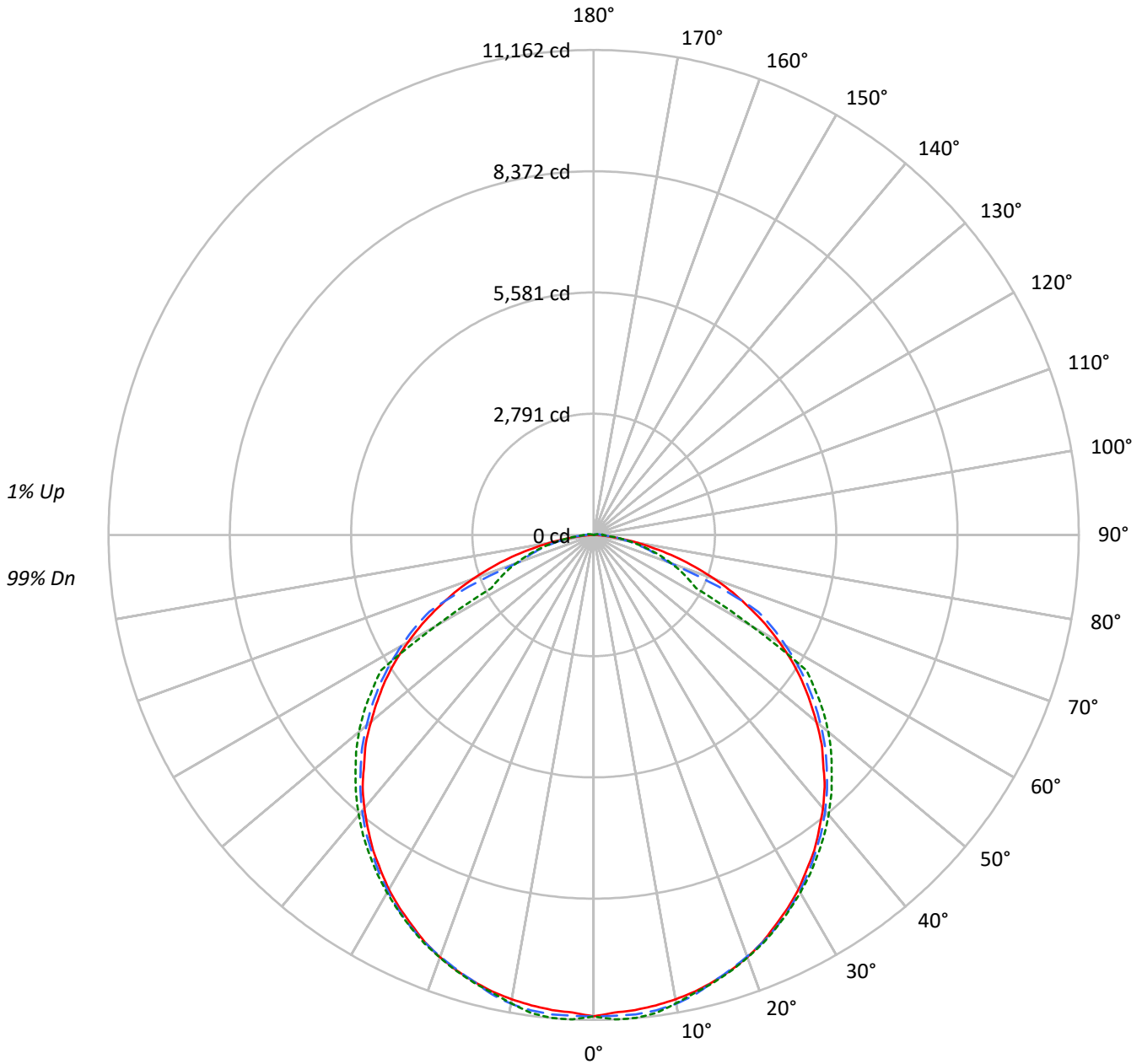
Test Method: LM-79-08  
Report Number: P830218  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-30HE-NL-UNV-L850-CD  
Description: 30000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND NO LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31109.0 lumens  
Efficiency: N/A  
Efficacy: 189.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39  
Luminous Opening: Rectangular (W 1.8' x L: 3.78' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 163.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

TEST NUMBER: P830218  
CATALOG NUMBER: OHBL-30HE-NL-UNV-L850-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P830218

CATALOG NUMBER: OHBL-30HE-NL-UNV-L850-CD

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102					99															
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86					84															
2	99	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73					71															
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62					60															
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53					51															
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46					44															
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41					39															
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36					34															
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32					30															
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29					27															
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26					25															

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	17523	17523	17523
5°	17426	17584	17717
10°	17431	17597	17575
15°	17428	17425	17463
20°	17404	17378	17421
25°	17285	17373	17387
30°	17205	17294	17362
35°	17094	17188	17349
40°	16946	17107	17360
45°	16702	16954	17324
50°	16450	16785	17340
55°	16136	16554	17149
60°	15595	16148	13351
65°	14755	15613	8985
70°	13647	8288	8720
75°	11904	7876	8328
80°	9154	7225	7632
85°	4620	7302	7478



TEST NUMBER: P830218

CATALOG NUMBER: OHBL-30HE-NL-UNV-L850-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1052.7	3.4
10°-20°	3014.1	9.7
20°-30°	4586.1	14.7
30°-40°	5576.1	17.9
40°-50°	5863.0	18.8
50°-60°	5353.6	17.2
60°-70°	3431.9	11.0
70°-80°	1621.2	5.2
80°-90°	449.5	1.4
90°-100°	119.1	0.4
100°-110°	32.6	0.1
110°-120°	9.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	8652.9	27.8
0°-40°	14229.0	45.7
0°-60°	25445.6	81.8
0°-90°	30948.3	99.5
90°-120°	160.7	0.5
90°-150°	160.7	0.5
90°-180°	161.0	0.5
0°-180°	31109.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11080	11080	11080	11080	11080	
5°	10977	11020	11076	11137	11160	###
15°	10645	10724	10643	10658	10666	3005
25°	9906	9921	9956	9972	9964	4571
35°	8854	8802	8903	9012	8986	5533
45°	7468	7454	7580	7759	7746	5772
55°	5852	5807	6004	6204	6220	5219
65°	3943	3943	4172	2393	2401	3909
75°	1948	1985	1289	1357	1363	2054
85°	255	323	402	436	412	376
90°	0	109	179	212	208	11
95°	6	56	128	173	173	3
105°	10	21	31	31	29	10
115°	10	14	19	14	2	7
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P830218

CATALOG NUMBER: OHBL-30HE-NL-UNV-L850-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	11080.2	11080.2	11080.2	11080.2	<i>11080.2</i>
2.5°	<i>11002.4</i>	<i>11039.5</i>	<i>11080.2</i>	<i>11132.7</i>	<i>11161.7</i>
5°	10977.1	11019.9	11076.3	11136.6	<i>11159.9</i>
7.5°	10922.8	10982.9	11037.4	11080.2	<i>11093.8</i>
10°	10854.6	10926.7	10957.7	10953.8	<i>10944.2</i>
12.5°	10763.2	10839.2	10829.5	10784.6	<i>10792.5</i>
15°	10644.7	10724.3	10642.8	10658.3	<i>10666.1</i>
17.5°	10504.7	10582.5	10487.2	10518.3	<i>10520.3</i>
20°	10341.5	10399.7	10325.8	10351.1	<i>10351.1</i>
22.5°	10145.1	10185.8	10154.8	10172.3	<i>10176.2</i>
25°	9905.9	9921.3	9956.3	9972.0	<i>9964.2</i>
27.5°	9676.6	9657.0	9725.2	9762.0	<i>9742.5</i>
30°	9421.8	9390.7	9470.3	9530.7	<i>9507.4</i>
32.5°	9130.1	9110.7	9202.1	9274.0	<i>9260.4</i>
35°	8854.1	8801.6	8902.6	9011.5	<i>8986.2</i>
37.5°	8527.4	8496.3	8611.0	8725.8	<i>8712.2</i>
40°	8208.5	8156.0	8286.3	8422.4	<i>8408.8</i>
42.5°	7866.4	7804.1	7946.1	8109.5	<i>8093.9</i>
45°	7467.7	7454.1	7580.5	7759.4	<i>7745.8</i>
47.5°	7114.1	7045.9	7222.8	7395.9	<i>7411.5</i>
50°	6686.1	6661.0	6822.4	7032.4	<i>7047.8</i>
52.5°	6268.3	6250.8	6419.8	6631.8	<i>6659.0</i>
55°	5852.1	5807.4	6003.8	6204.1	<i>6219.7</i>
57.5°	5407.0	5360.3	5560.6	5778.4	<i>5811.3</i>
60°	4930.5	4885.8	5105.5	5307.8	<i>4221.0</i>
62.5°	4454.2	4423.1	4652.6	3295.5	<i>2656.0</i>
65°	3942.9	3942.9	4172.2	2393.3	<i>2401.1</i>
67.5°	3464.7	3433.6	3110.9	2150.2	<i>2150.2</i>
70°	2951.4	2963.1	1792.5	1884.1	<i>1885.9</i>
72.5°	2436.1	2478.9	1547.7	1621.4	<i>1625.3</i>
75°	1948.1	1985.1	1289.0	1357.1	<i>1362.9</i>
77.5°	1431.0	1100.4	1036.2	1088.9	<i>1090.8</i>
80°	1005.1	694.1	793.3	843.7	<i>838.0</i>
82.5°	587.1	486.0	581.3	618.3	<i>616.3</i>
85°	254.6	322.8	402.4	435.6	<i>412.1</i>
87.5°	81.5	200.3	250.7	270.3	<i>268.2</i>
90°	0.0	108.9	178.9	211.8	<i>208.1</i>
92.5°	0.0	85.4	155.6	194.5	<i>196.4</i>
95°	5.8	56.4	128.4	173.1	<i>173.1</i>
97.5°	3.9	40.8	91.4	136.1	<i>140.0</i>
100°	3.9	32.9	60.3	97.2	<i>99.2</i>
102.5°	9.7	27.2	36.8	62.2	<i>64.2</i>
105°	9.7	21.4	31.1	31.1	<i>29.2</i>



TEST NUMBER: P830218

CATALOG NUMBER: OHBL-30HE-NL-UNV-L850-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	11.7	15.6	21.4	15.6	1.9
115°	9.7	13.6	19.3	13.6	1.9
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°







107.5°	9.7	19.3	27.2	17.5	5.8
110°	11.7	17.5	23.3	15.6	1.9



(END OF REPORT)